For Research Use Only

CoraLite® Plus 488-conjugated Phospho-TSC2 (Ser1387) Recombinant monoclonal antibody

Catalog Number:CL488-80553-2

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
CL488-80553-2

Size:
100ul , Concentration: 1000 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
BC150300

GeneID (NCBI):
7249

UNIPROT ID:
P49815

Full Name:
tuberous sclerosis 2

Calculated MW:
1807 aa, 201 kDa

Observed MW:
200 kDa

Purification Method:
Protein A purification

CloneNo.:
242665D1

Recommended Dilutions:
FC (Intra): 0.25 ug per 10^6 cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:
493 nm / 522 nm

Applications

Tested Applications:
FC (Intra)

Species Specificity:
human, mouse

Positive Controls:

FC (Intra) : Calyculin A treated HeLa cells, Calyculin A treated NIH/3T3 cells

Background Information

TSC2, also named as Tuberin, plays an essential role in the cellular energy response pathway. TSC2 forms a physical and functional complex with TSC1 that can inhibit the nutrient-mediated or growth factor-stimulated phosphorylation of S6K1 and EIF4EBP1 by negatively regulating mTORC1 signaling. AMPK can phosphorylate and activate the Ser1387 site of TSC2.(PMID: 14651849, 12172553, PMID: 23244622)

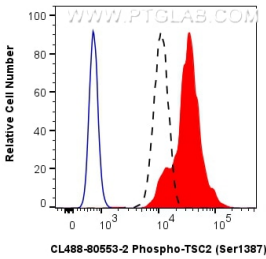
Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1X10^6 HeLa cells untreated (dashed lines) or treated with Calyculin A which intracellularly stained with 0.25 ug Coralite® Plus 488 Phospho-Tsc2 (Ser1387) Recombinant Antibody (CL488-80553-2, Clone:242665D1)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Flow Cytometry Phosphorylated Protein Fixation/Permeabilization Kit (PF00026).